

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,049	10/31/2003	Toshiaki Hata	Q77939	8383
23373 7590 09/10/2007 SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMIŅER	
			HOLLOWAY III, EDWIN C	
SUITE 800 WASHINGTON, DC 20037			ART UNIT	PAPER NUMBER
			2612	
		MAIL DATE	DELIVERY MODE	
			09/10/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/697,049	HATA, TOSHIAKI			
Office Action Summary	Examiner	Art Unit			
	Edwin C. Holloway, III	2612			
The MAILING DATE of this communication for Reply	ation appears on the cover sheet wit	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOI					
 WHICHEVER IS LONGER, FROM THE MAI Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commun If NO period for reply is specified above, the maximum statul Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months afte earned patent term adjustment. See 37 CFR 1.704(b). 	37 CFR 1.136(a). In no event, however, may a re nication. tory period will apply and will expire SIX (6) MONT II, by statute, cause the application to become ABA	pply be timely filed FHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed	on <u>27 June 07</u> .				
2a)⊠ This action is FINAL . 2b	This action is FINAL. 2b) This action is non-final.				
3) Since this application is in condition fo					
closed in accordance with the practice	e under <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-11 is/are pending in the ap	plication				
4a) Of the above claim(s) is/are	withdrawn from consideration.				
5) Claim(s) is/are allowed.	•				
6)⊠ Claim(s) <u>1-11</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	on and/or election requirement.				
Application Papers					
9) The specification is objected to by the	Examiner.				
10) The drawing(s) filed on is/are: a	a) ☐ accepted or b) ☐ objected to b	by the Examiner.			
Applicant may not request that any objecti	on to the drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the	ne correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to b	by the Examiner. Note the attached	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim fo	or foreign priority under 35 U.S.C. §	119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority do 	ocuments have been received.				
Certified copies of the priority do	ocuments have been received in Ap	oplication No			
·	the priority documents have been	received in this National Stage			
application from the Internationa	, , , , , , , , , , , , , , , , , , , ,				
* See the attached detailed Office action	for a list of the certified copies not r	received.			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO) 		ummary (PTO-413))/Mail Date			
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		formal Patent Application			

Art Unit: 2612

EXAMINER'S RESPONSE

A request for continued examination under 37 CFR 1.114, 1. including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2-20-07 has been entered. In response to applicant's amendment filed 2-20-07, all the amendments to the specification and claims have The examiner has considered the new presentation been entered. of claims and applicant's arguments in view of the disclosure and the present state of the prior art. And it is the examiner's opinion that the claims are unpatentable for the reasons set forth in this Office action:

Claim Rejections - 35 USC § 103

- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-2, 4-6 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Konno (US006914516B2) in combination with Yoshizawa (6,414,586), Carlo (5,449,957) and Iijima (US 5708307).

Regarding claim 1, Konno teaches an antitheft device for a vehicle (Fig. 1, portable transmitter 1 2 and scooter) which is propelled by a driving force of an engine, said device comprising:

a first switch (Fig. 1, col. 7, lines 11 -13, lock button on portable transmitter 12 to transmit an ID code) adapted to be turned on from the outside to send a first prescribed ID code;

an operation-equipment operation determining part that receives said first ID code to generate permission information (col. 5, lines 27-53, collation coincidence signal) for releasing a limited state of said operation equipment; col. 6, lines 62-67, engine can be started upon permission information) caused by said operation-equipment limiting part;

a nonvolatile memory for storing said permission information (col. 6, lines 62-67, storage or collation result holding means 23 associated with permission information); and

an engine operation limiting part (col. 6, lines 62-67, outputting of permission information from holding means 23) that permits the operation of said engine in response to said permission information, and limits (col. 6, lines 62-67, within the short preset time to start the engine) the operation of said engine based on an operating state of said engine;

wherein said operation-equipment operation determining part stores in advance a second ID code corresponding to said first ID code (col. 5, lines 27-53, ID code transmitted 12), collates said first ID code with said second ID code (col. 5, lines 27-53, second ID or predetermined ID code stored), and generates said permission information (code (col. 5, lines 27-53, coincidence upon ID matching) thereby to permit the operation of said operation equipment as well as to make said permission information stored in said nonvolatile memory, when the collation result of said first and second ID codes indicates coincidence there-between.

But Konno is silent on an operation-equipment limiting part disposed at a vehicle for limiting the operation of operation equipment for said vehicle through external operation (Fig. 1, portable transmitter 12) and said operation-equipment operation determining part permits the operation of said engine by using said permission information in said nonvolatile memory, when said engine is restarted in a predetermined time after generation of said permission information.

However, Yoshizawa teaches, in the art of remote control system, an operation-equipment limiting part (34) disposed at a vehicle for limiting the operation of operation equipment (door locks) for said vehicle through external operation (transmitter

Page 5

Art Unit: 2612

40).

Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to include an operation-equipment limiting part disposed at a vehicle for limiting the operation of operation equipment for said vehicle through external operation in the device of Konno as suggested by Yoshizawa because such separate operation provides specific or individual control of door locks and engine control without unnecessary action of other elements/devices.

Likewise, Carlo teaches, in the art of remote control system, said operation-equipment operation determining part permits the operation of said engine by using said permission information in said nonvolatile memory, when said engine is restarted in a predetermined time after generation of said permission information (col.1, lines 49-56, restart the engine within predetermined time without permission information) for the purpose of providing quick engine start.

Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to include said operation-equipment operation determining part permits the operation of said engine by using said permission information in said nonvolatile memory, when said engine is restarted in a predetermined time after generation of said permission

Application/Control Number: 10/697,049

Art Unit: 2612

information in the device of Konno as suggested by Carlo because such restart operation provides without unnecessary recollation, thus providing quick engine start.

Konno does not expressly discloses permission information stored in a non-volatile memory deleted when use of the vehicle is stopped. However, Iijima discloses an analogous art vehicle anti-theft system with refers to a holding circuit similar to Konno to provide restart without taking time for code collation, but having problems such as not allowing start when the CPU malfunctions. See col. 1. Iijima solves this problem by using a non-volatile memory in the form of an EEPROM that stores a collation result OK flag as permission information. The flag allows restart without collation. The flag is reset or erased when the ignition switch is turned to the off position indicating the use of the vehicle has stopped.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have included in the combination the permission information stored in a non-volatile memory deleted when use of the vehicle is stopped as disclosed in Iijima to avoid problems with holding circuits and suggested by opening the power switch automatically when the vehicle is stopped of by manual operation of the transmitter

when the owner is leaves the vehicle to activate the antitheft device in col. 7.

Regarding claim 6, Konno is silent on said first switch includes a key and a key cylinder for said vehicle; and said first ID code is sent by said key's being inserted into said key cylinder.

However, Yoshizawa teaches, in the art of vehicle security system, said first switch includes a key and a key cylinder for said vehicle; and said first ID code is sent by said key's being inserted into said key cylinder (col. 3, lines 33-51, a key 10 in the steering column key receptacle wherein ID code is transmitted) for the purpose of providing engine start. Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to include said first switch includes a key and a key cylinder for said vehicle; and said first ID code is sent by said key's being inserted into said key cylinder in the device of Konno because Konno suggests lock button in the transmitter and Yoshizawa teaches said first switch includes a key and a key cylinder for said vehicle; and said first ID code is sent by said key's being inserted into said key cylinder for the purpose of providing engine start.

Regarding claim 11, Yoshizawa teaches said operationequipment limiting part is not portable (Fig. 1, door lock, door

unlock, engine start, etc. are operation-equipment limiting part disposed at the vehicle, and not portable, like transmitter 10).

All limitations except a second switch adapted to be turned on from the outside to send a third prescribed ID code in claim 2 are discussed above with regards to claims 1. However, Yoshizawa teaches, in the art of remote control system, second switch adapted to be turned on from the outside to send a third prescribed ID code (Fig. 1, lock 41 or unlock 42 button) for the purpose of providing specific operation. Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to include second switch adapted to be turned on from the outside to send a third prescribed ID code in the device of Konno as suggested by Yoshizawa because such separate operation provides specific or individual control of door lock or unlock control without unnecessary action of other operations.

Therefore rejection of the limitations expressed in claims 2 are met by references and associated arguments applied to rejection of claim 1 and to rejection provided in the previous paragraph.

Regarding claim 4, Yoshizawa continues, as claimed in claim 2, to teach said first and second switches generate instruction information corresponding to a plurality of functions to said

operation-equipment operation determining part (Fig. 1, first switch 41 to lock a plural doors and second switch 42 to unlock a plural doors).

Regarding claim 5, Yoshizawa continues, as claimed in claim 2, to teach said first and second switches are arranged inside a portable transmitter isolated from said operation-equipment operation determining part (Fig. 1, first switch 41 and second switch 42).

4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Konno in view of Yoshizawa, Carlo and Iijima as applied above and further in view of Lipschutz (4,583,148).

Regarding claim 3, Konno in view of Yoshizawa and Carlo is silent on the antitheft device for a vehicle as set forth in claim 2, wherein said operation-equipment limiting part comprises an electromagnetic locking device.

However, Lipschutz teaches, in the art of vehicle security system, said operation-equipment limiting part comprises an electromagnetic locking device (col. 2, lines 49-69, an electromagnetic locking device associated with operation-equipment limiting part is activated when key 2 is inserted and correct code is received 1 0 by the actuated transmitter 9) for the purpose of starting the ignition process of the engine.

Therefore, it would have been obvious to a person skilled in the

Art Unit: 2612

art at the time the invention was made to include said operation-equipment limiting part comprises an electromagnetic locking device in the device of Konno in view of Yoshizawa and Carlo as suggested by Lipschutz because such operation by an electromagnetic locking device provides specific anti-theft measure of the vehicle without unnecessary action of other operations.

5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Konno in view of Yoshizawa, Carlo and Iijima as applied above and further in view of Mueller et al. (6,140.914).

Regarding claim 7, Konno in view of Yoshizawa and Carlo is silent on warning from vibration sensor. However, Mueller teaches in the art of vehicle security system, warning from vibration sensor (col. 9, lines 1 7-36, shock warning 250' associated with vibration warning) for the purpose of providing antitheft feature. Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to include warning from vibration sensor in the device of Konno in view of Yoshizawa and Carlo as suggested by Mueller because such warning provides the vehicle the anti-theft measure.

Art Unit: 2612

6. Claims 8-10 are rejected under 35 U.S.C. 1 03(a) as being unpatentable over Konno in view of Yoshizawa, Carlo and Iijima as applied above and further in view of Espinosa (5,448,218).

Regarding claims 8-10, Konno in view of Yoshizawa and Carlo silent on interrupting an ignition signal to limit engine operation, and bringing engine into stopped state and impossible to restart.

However, Espinosa teaches, in the art of vehicle security system, interrupting a fuel supply signal to limit engine operation (col. 3, lines 58 to col. 4, line 16, fuel valve control via fuel supply signal), and bringing engine into stopped state and impossible to restart (col. 4, lines 17-26, bringing engine in stopped state and subsequently impossible to restart) for the purpose of providing antitheft feature.

Therefore, it would have been obvious to a person skilled in the art at the time the invention was made to include interrupting a fuel supply signal to limit engine operation, and bringing engine into stopped state and impossible to restart in the device of Konno in view of Yoshizawa and Carlo as suggested by Espinosa because such measure of impossibility to start the engine provides high level of anti-theft system.

Response to Arguments

Art Unit: 2612

7. Applicant's arguments filed 6-27-07 have been fully considered but they are not persuasive.

Applicant argues that Carlo lacks permitting operation of an engine by using permission information in a nonvolatile memory The argument is not persuasive because the rejection is based on a combination of references where Carlo permits operation of an engine by control circuit 80 using status held by timer 92 and/or 108 for a predetermined time after recognizing or correlating a received ID code. See col. 5 line 37 - col. 6 line 44 and col. 7 lines 10-47 of Carlo.

Nonvolatile memory would have been obvious in view of the holding means 23 for holding indication of correlation in Konno and/or EEPROM 35 of Yoshizawa that is nonvolatile memory associated with microprocessor 34 suggested by Carlo disclosing timer being part of a microprocessor.

Further, the rejection applies Iijima to clearly teach replacing such holding circuits for restart with a non volatile EEPROM. See col. 1 lines 51-53 and col. 4 lines 53-62.

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edwin C. Holloway, III whose telephone number is (571) 272-3058. The examiner can normally be reached on M-F from 9:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Zimmerman, can be reached on (571) 272-3059.

Application/Control Number: 10/697,049

Art Unit: 2612

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EH 9/4/07 (571) 272-3058 EDWIN C. HOLLOWAY, III
PRIMARY EXAMINER
ART UNIT 2612

S.d. Cloles

Page 13